```
let S = \langle x \ y \ z.x \ z \ (y \ z)
let K = \x y.x
S K K
 <whitespace>
 \rightarrow " " <whitespace opt>
 \rightarrow " "
 <line_end>
 \rightarrow <whitespace opt> ("\n" | "\0")
\rightarrow ("\n" | "\0")
 <variable>
\rightarrow < letter > < variable_opt >
\rightarrow < letter>
\rightarrow ("S" | "K" | "x" | "y" | "z")
 <variables>
\rightarrow <variable> <variables opt>
\rightarrow <variable> <whitespace> <variable> <variables opt>
\rightarrow <variable> <whitespace> <variable> <whitespace> <variable> <v
ables opt>
 → <variable> <whitespace> <variable> <whitespace> <variable>
\rightarrow "x y z"
 <term>
\rightarrow <application>
\rightarrow <operand> <application_opt>
\rightarrow <variable> <application opt>
\rightarrow <variable> <whitespace> <operand> <application opt>
\rightarrow "S " <<br/>operand> <application_opt>
\rightarrow "S" < variable > < application opt >
\rightarrow "S" < variable > < whitespace > < operand > < application opt >
\rightarrow "S" < variable > < whitespace > < operand >
\rightarrow "S K " < operand >
```

```
\rightarrow "S K " <variable>
\rightarrow "S K K"
<definition>
\rightarrow <declaration> <whitespace> "=" <whitespace> <term>
→ "let" < whitespace > < variable > < whitespace > "=" < whitespace > < term >
\rightarrow "let S = " <term>
\rightarrow "let S = " <abstraction>
\rightarrow "let S = \" < variables> "." < term>
\rightarrow "let S = \x y z." < term>
\rightarrow "let S = \x y z." <application>
\rightarrow "let S = \x y z." < operand > < application opt >
\rightarrow "let S = \x y z." <
variable> <application_opt>
\rightarrow "let S = \x y z." < variable > < whitespace > < operand > < application opt >
\rightarrow "let S = \x y z.x " < operand > < application_opt >
\rightarrow "let S = \x y z.x " < variable > < application opt >
\rightarrow "let S = \xspace variable> <whitespace> <operand> <applica-
tion opt>
\rightarrow "let S = \x y z.x " < variable > < whitespace > < operand >
\rightarrow "let S = \xy z.x z" < operand>
\rightarrow "let S = \x y z.x z " < term par>
\rightarrow "let S = \x y z.x z (" < whitespace opt > < term > < whitespace opt >
11 / 11
\rightarrow "let S = \x y z.x z (" < term> ")"
\rightarrow "let S = \x y z.x z (" <application> ")"
\rightarrow "let S = \xy z.x z (" < operand > < application opt > ")"
\rightarrow "let S = \x y z.x z (" < operand > < whitespace > < operand > < applica-
tion opt>")"
\rightarrow "let S = \xy z.x z (" < operand > < whitespace > < operand > ")"
\rightarrow "let S = \x y z.x z (" < variable > < whitespace > < variable > ")"
\rightarrow "let S = \x y z.x z (y z)"
program>
\rightarrow <expression>                                                                                                                                                                                                                                                                                                                                                   
\rightarrow <expression> <expression>                                                                                                                                                                                                                                                                                                                                                
→ <expression> <expression>                                                                                                                                                                                                                                                                                                                                                 <
\rightarrow <expression> <expression>
```